Docket No.: 0425-1082P Application No.: 10/678,088

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AMENDED CLAIM SET

The claims have been amended as follows:

(currently amended) An inflator, comprising: 1.

a cylindrical inflator housing which is closed at one end thereof and having an opening

opened at the other end, and in which a pressurized gas is charged; and

a diffuser portion connected the to-an opening of the inflator housing, and having a gas

discharge port therein;

a rupturable plate that closes at least one portion of a gas discharge passage extending

from the inflator housing to the gas discharge port of the diffuser portion;

an igniter including an igniting portion covered by a cup and provided with a diffuser an

igniter, provided spaced apart from the rupturable plate prior to an activation of the igniter, for

rupturing the rupturable plate disposed in the diffuser portion such that an axial direction of the

inflator housing is orthogonal to an axial direction of the igniter, the igniter generating a

combustion product upon activation thereof and the axial direction of the igniter does not exactly

oppose a surface of the rupturable plate; and

a fragile portion provided in a peripheral surface of the cup and opposing the rupturable

plate, such that the combustion product is directed towards a single directionmeans for directing

a rupturing energy, generated by activation of the igniter, in a direction that exactly opposes the

rupturable plate to rupture the rupturable plate.

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2. (currently amended) An inflator according to claim 1, wherein said means is a

fragile portion provided in the igniter at a portion exactly opposing the rupturable plate, the

fragile portion is ruptured upon an activation of the inflator igniter and a rupturing energy acts on

the rupturable plate from the fragile portion.

3. (currently amended) An inflator according to claim 1 claim 2, wherein the fragile

portion provided in the igniter is constituted with a combination of a hole provided in the cup

covering the a side face of a cup member covering an igniting portion of the igniter and a sealing

tape closing the hole from the inside of the cupcup member.

4. (currently amended) An inflator according to claim 1 claim 2, wherein the fragile

portion provided in the igniter comprises a portion surrounded by a groove or a portion with a

notch, which is provided in a side face of the cup covering the a cup member covering an

igniting portion of the igniter.

5. (currently amended) An inflator, comprising: according to claim 1

a cylindrical inflator housing which is closed at one end thereof and having an opening at

the other end, and in which a pressurized gas is charged;

a diffuser portion connected to the opening of the inflator housing, and having a gas

discharge port therein;

a rupturable plate that closes at least one portion of a gas discharge passage extending

from the inflator housing to the gas discharge port of the diffuser portion;

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an igniter, provided spaced apart from the rupturable plate prior to an activation of the

igniter, for rupturing the rupturable plate disposed in the diffuser portion such that an axial

direction of the inflator housing is orthogonal to an axial direction of the igniter and an igniting

portion of the igniter being located outside of the rupturing plate in a radial direction of the

rupturing plate; and

means for directing a rupturing energy, generated by activation of the igniter, in a

direction that exactly opposes the rupturable plate to rupture the rupturable plate,

wherein said means is a guiding passage, disposed inside the diffuser portion, for guiding

the rupturing energy discharged from the igniter to the rupturable plate formed in the diffuser

portion, and the rupturing energy is guided to a central portion of the rupturable plate or a portion

thereof in the vicinity of the central portion by action of the guiding passage.

6. (currently amended) An inflator according to claim 5, wherein the guiding

passage comprises is defined by a cap, which surrounds at least an igniting the igniting portion of

the igniter and disposed in a direction orthogonal to the axial direction of the inflator housing,

and a hole which is provided at a position, on a side face of the cap, which exactly opposes the

rupturable plate.

7. (canceled)

8. (canceled)

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9. (previously presented) An inflator according to claim 1, wherein the

pressurized gas is charged in a single space defined by the cylindrical inflator housing and the

diffuser portion.

10. (currently amended) An inflator, comprising:

a cylindrical inflator housing which is closed at one end thereof and having an opening

portion opened at the other end and in which a pressurized gas is charged;

a diffuser portion which is connected to the opening an opening portion of the inflator

housing, and having a gas discharge port;

a gas discharge passage extending from the inflator housing to the gas discharge port of

the diffuser portion, at least one portion of the gas discharge passage discharged passage being

closed by a rupturable plate;

an igniter, for rupturing the rupturable plate, disposed in the diffuser portion, such that

the axial direction of the inflator housing and the axial direction of the igniter obliquely cross

with each other, the igniter generating a rupturing energy acting in a direction oblique to act in an

oblique direction directly to the rupturable plate to rupture the rupturable plate; and

an igniter supporting portion provided in the diffuser and making a direct contact with

and fixing the igniter in the diffuser portion, the igniter supporting portion reducing a cross

section of the gas discharge passage, such that the igniter supporting portion projects inwardly

into the gas discharge passage more than an inner surface of the diffuser portion.

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11. (previously presented) An inflator according to claim 1 or 10, further

comprising:

a diffuser tube, having a second gas discharge port, connected to the gas discharge port of

the diffuser portion.

12. (currently amended) An inflator according to claim 11, wherein the diffuser tube

is arranged such that the diffuser tube is coaxial to the inflator housing or the central axis of the

inflator housing, and the central axis of the diffuser tube arranged, such that a center axis of the

diffuser tube and a center axis of the inflator housing coincide or are parallel to each other.

13. (previously presented) An inflator according to claim 11, wherein the

diffuser tube has a plurality of second gas discharge ports in a peripheral face thereof, and the

plurality of second gas discharge ports are provided circumferentially at equal intervals.

14. (currently amended) An inflator according to claim 1 or 10claim 13, further

comprising:

a filter, which which catches fragments of the rupturable plate, plate being disposed in the

gas-discharge passage extending from the rupturable plate to the gas discharge port or to the

second gas discharge portdiffuser tube.

15. (previously presented) An inflator according to claim 12, wherein the

diffuser tube has a plurality of second gas discharge ports in a peripheral face thereof and the

plural second gas discharge ports are provided circumferentially at equal intervals.

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16. (currently amended) An inflator, comprising:

a cylindrical inflator housing provided with an opening portion at one end thereof and a

closed portion at the other end thereof, and including a pressurized gas therein;

a diffuser portion connected to the opening portion and having a gas discharge port, the

diffuser portion including therein a gas passage extending from the inflator housing to the gas

discharge port;

a rupturable plate that closes at least a portion of the gas passage;

an igniter provided within the diffuser portion such that an axis of the igniter is

perpendicular to an axis of the cylindrical inflator housing, the igniter generating a combustion

product upon activation thereof; and

a deforming member provided between the igniter and the rupturable plate, such that the

deforming member is prevented from making a direct contact with the rupturable plate prior to

activation of the inflator, and is and being deformed by the combustion product to cause the

rupturable plate to rupture by a deformation thereof.

17. (previously presented) The inflator according to claim 16, wherein the

deforming member is formed in a single piece and attached to the diffuser portion before

activation of the inflator.

18. (previously presented) The inflator according to claim 17, wherein the

deforming member is a circumferential portion of a cap that surrounds at least an igniting portion

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of the igniter and is disposed in a direction perpendicular to the axis of the cylindrical inflator housing.

19. (new) The inflator according to claim 16, wherein the deforming member includes a weakened portion that deforms upon receiving the combustion product.